

Part Number: APBL3025NSGC-F01

Pure Orange
Super Bright Green

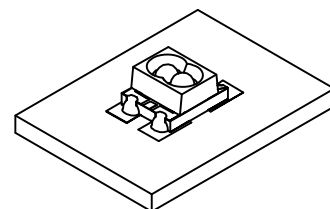
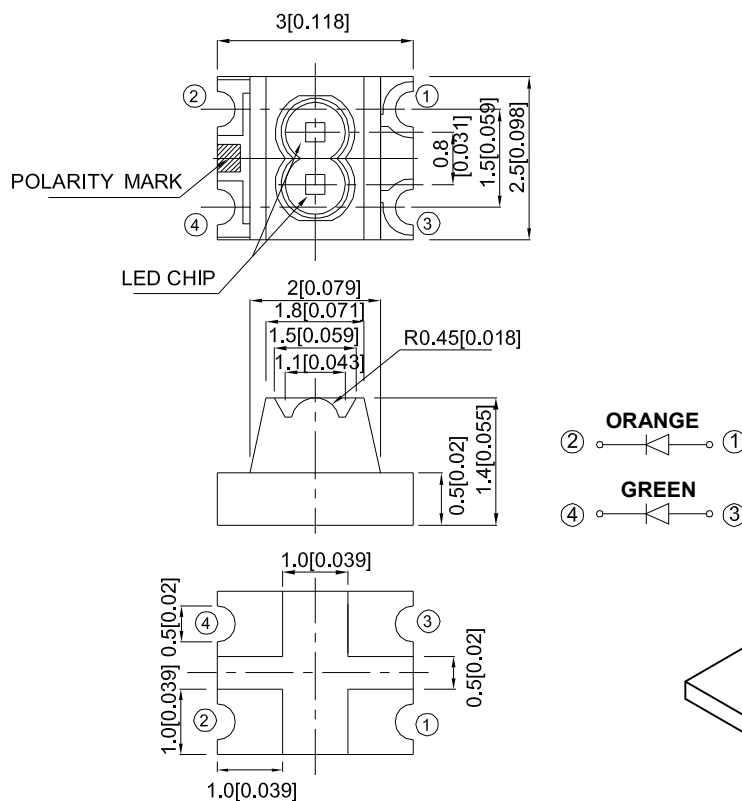
Features

- 3.0mmx2.5mm SMT LED, 1.4mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for back light and indicator.
- Inner lens type.
- Moisture sensitivity level : level 3.
- Package : 2000pcs / reel.
- RoHS compliant.

Descriptions

- The Pure Orange source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Pure Orange Light Emitting Diode.
- The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.2(0.008)$ unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
4. The device has a single mounting surface. The device must be mounted according to the specifications.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
APBL3025NSGC-F01	Pure Orange (GaAsP/GaP)	Water Clear	12	20	100°
			*5	*12	
	Super Bright Green (GaP)		12	20	
			*12	*20	

Notes:

1. $\theta_{1/2}$ is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
2. Luminous intensity / luminous Flux: +/-15%.
- * Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Pure Orange Super Bright Green	607 565		nm	I _F =20mA
λ_D [1]	Dominant Wavelength	Pure Orange Super Bright Green	602 568		nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Pure Orange Super Bright Green	35 30		nm	I _F =20mA
C	Capacitance	Pure Orange Super Bright Green	15 15		pF	V _F =0V; f=1MHz
V _F [2]	Forward Voltage	Pure Orange Super Bright Green	2.05 2.2	2.5 2.5	V	I _F =20mA
I _R	Reverse Current	Pure Orange Super Bright Green		10 10	uA	V _R = 5V

Notes:

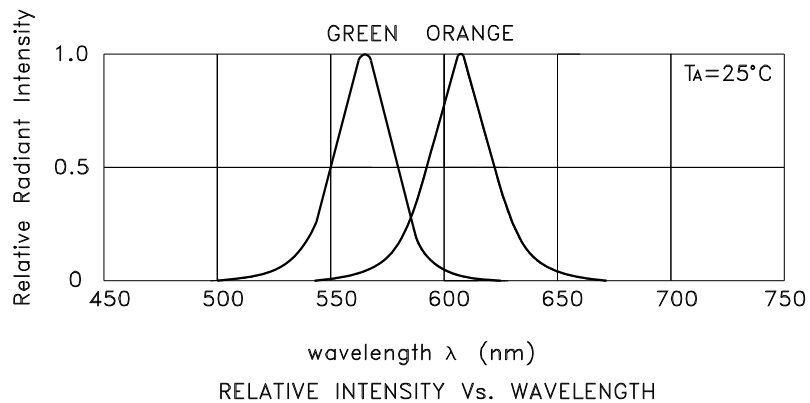
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

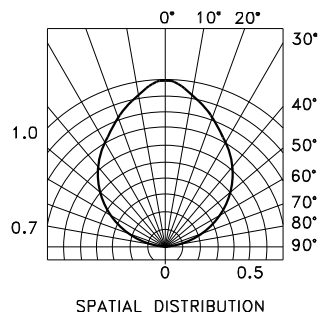
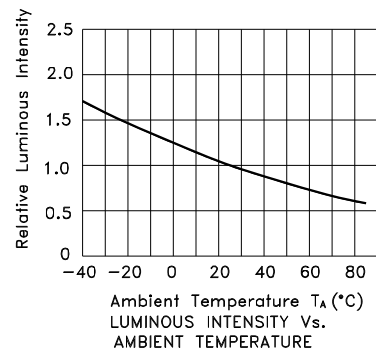
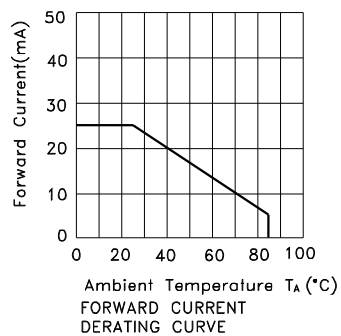
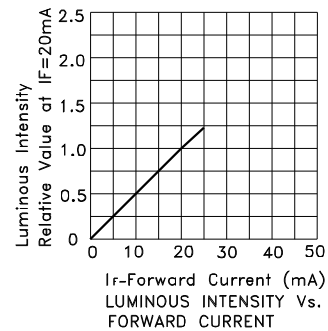
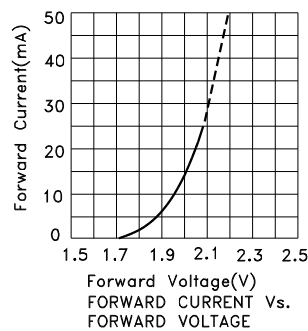
Parameter	Pure Orange	Super Bright Green	Units
Power dissipation	62.5	62.5	mW
DC Forward Current	25	25	mA
Peak Forward Current [1]	145	140	mA
Reverse Voltage	5		V
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Note:

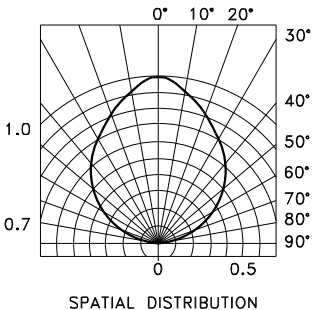
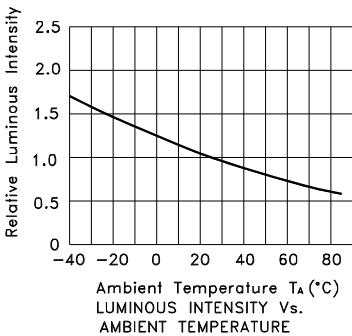
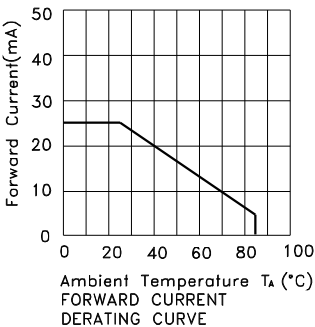
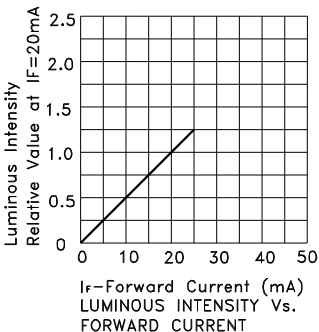
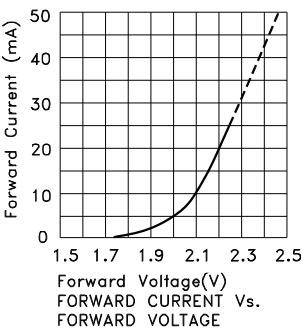
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



APBL3025NSGC-F01 Pure Orange

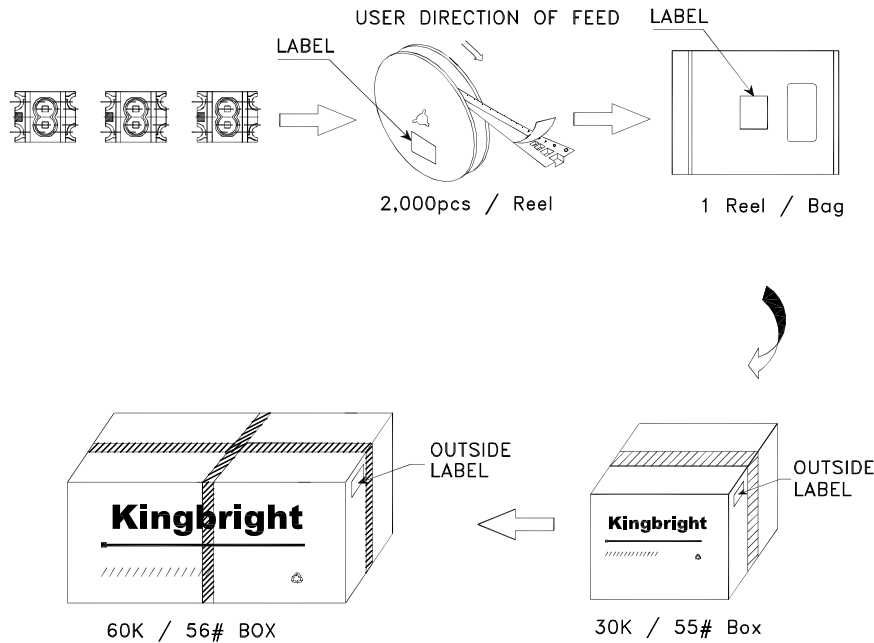



Super Bright Green



PACKING & LABEL SPECIFICATIONS

APBL3025NSGC-F01



Kingbright	
P/NO: APBL3025xxx	
QTY: 2,000 pcs	Q.C. Q C xx-xx-xxxx PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
 XXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	

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